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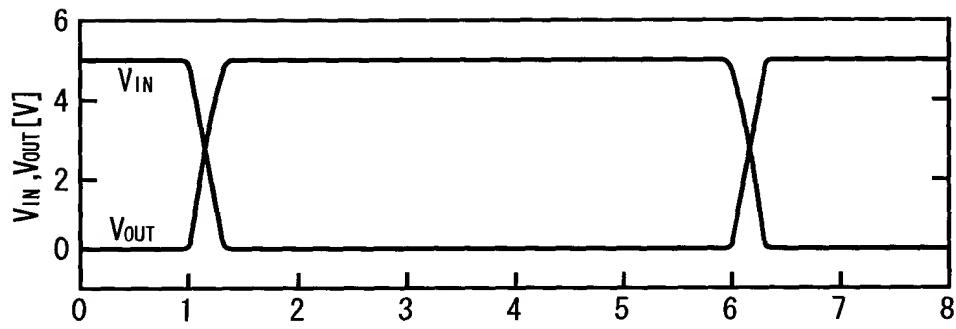


FIG. 1A

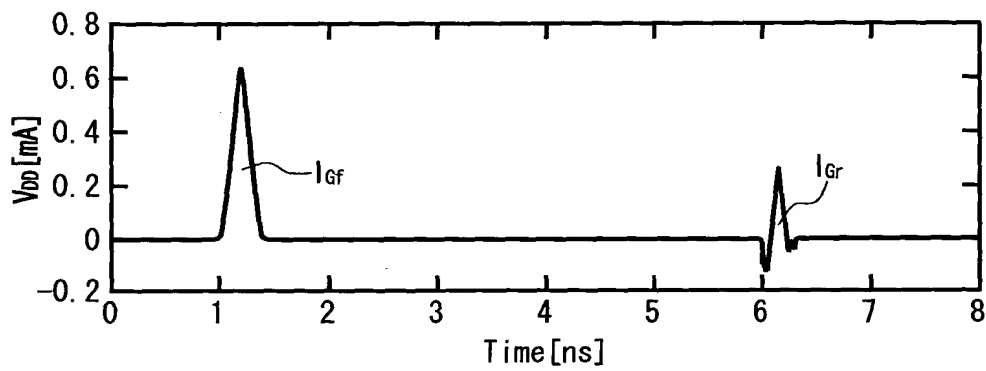


FIG. 1B

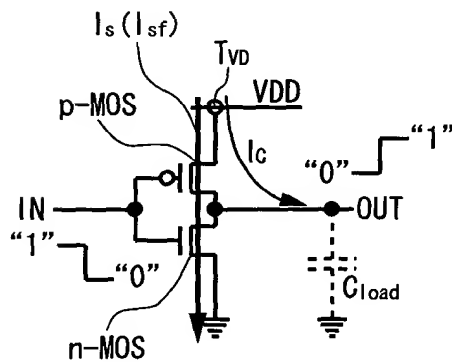


FIG. 1C

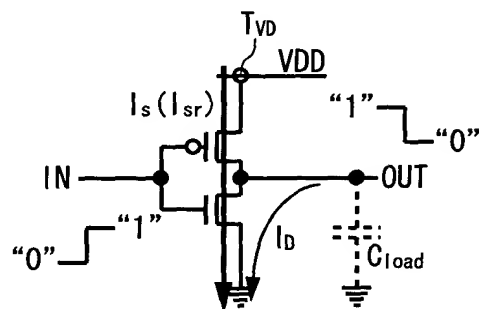


FIG. 1D

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FIG. 2A

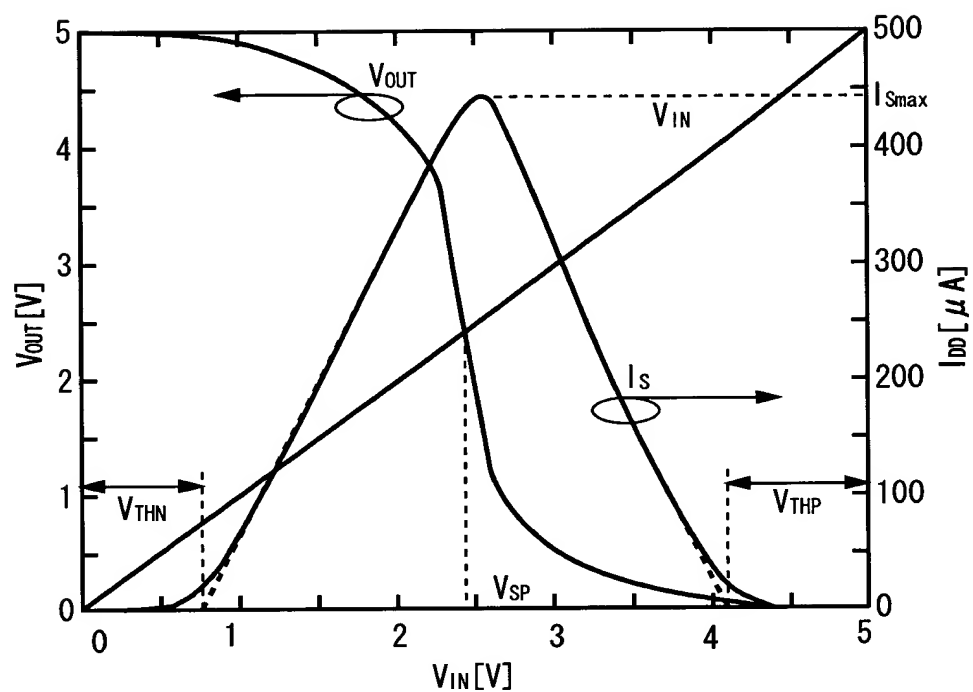
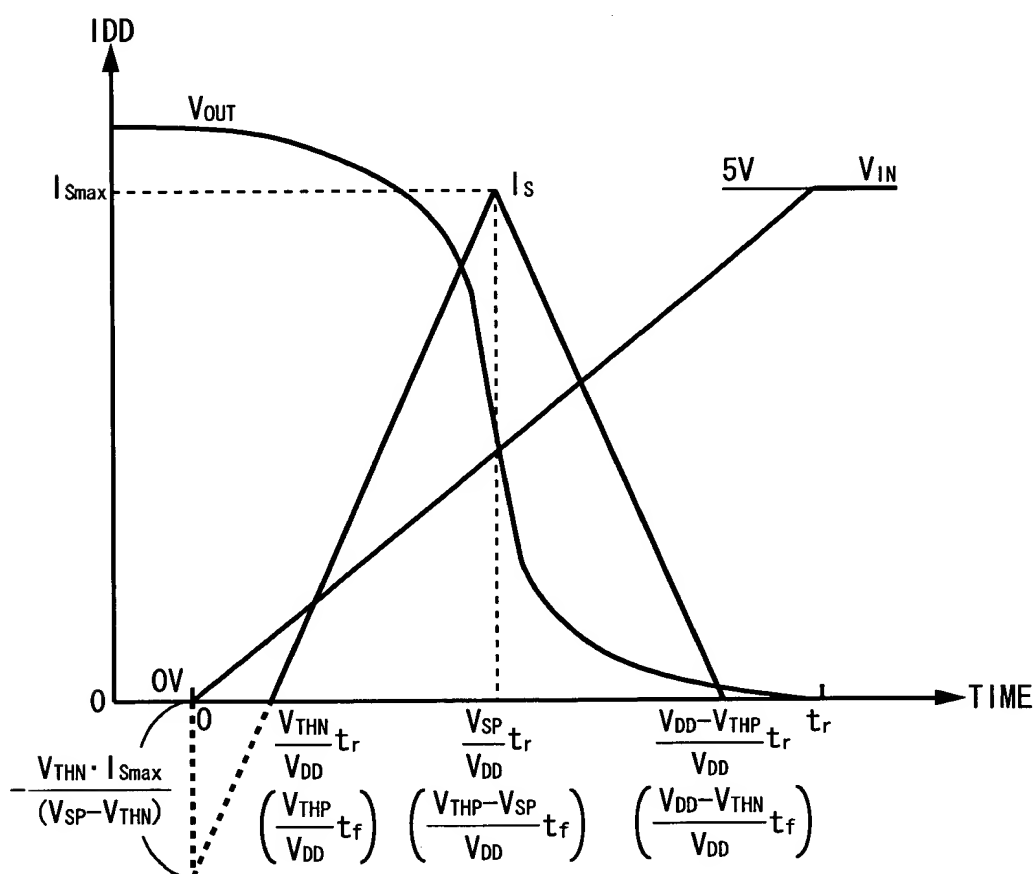


FIG. 2B



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FIG. 3A

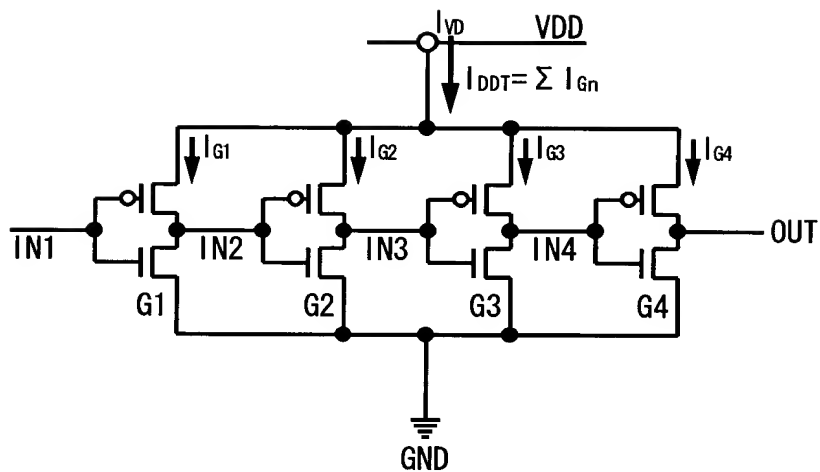


FIG. 3B

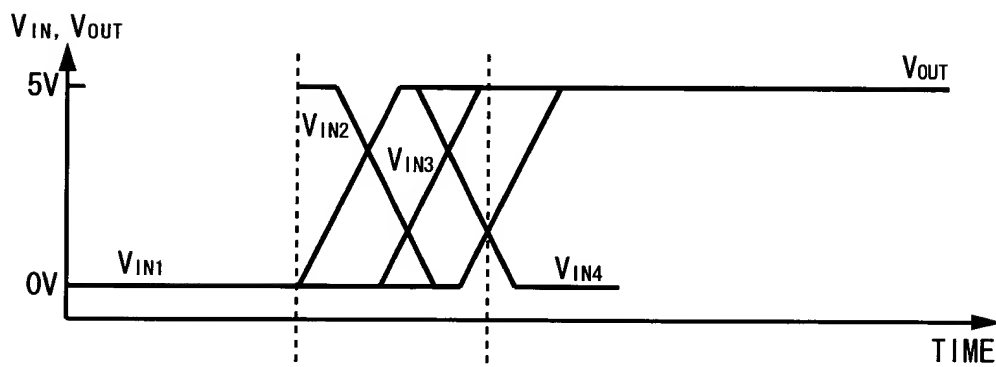
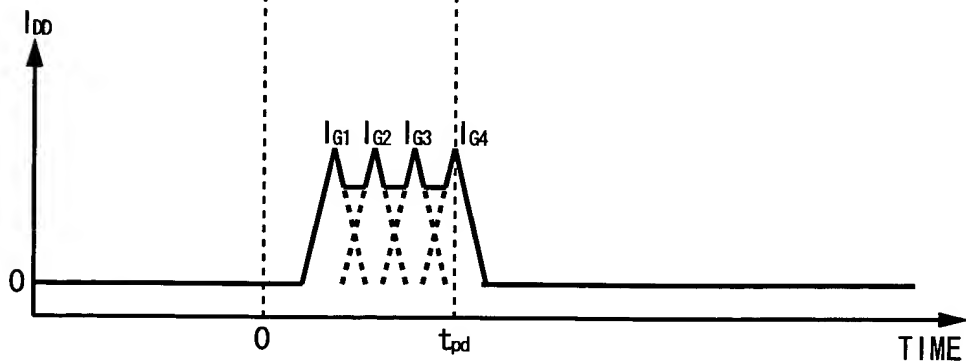


FIG. 3C



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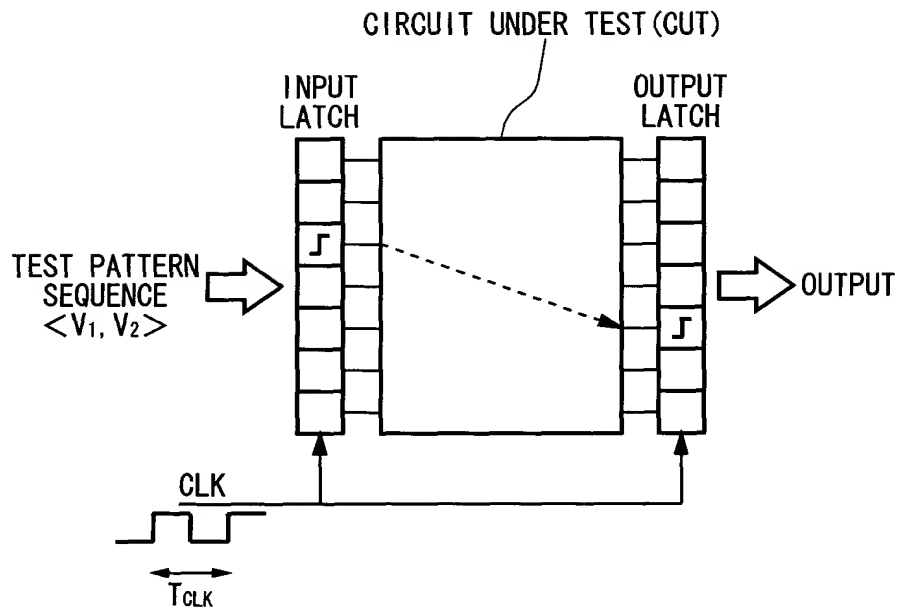


FIG. 4A

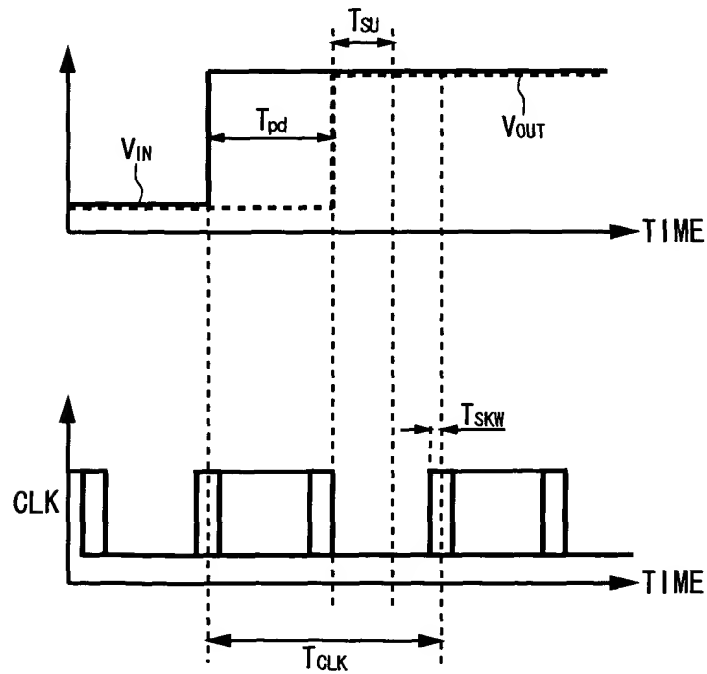
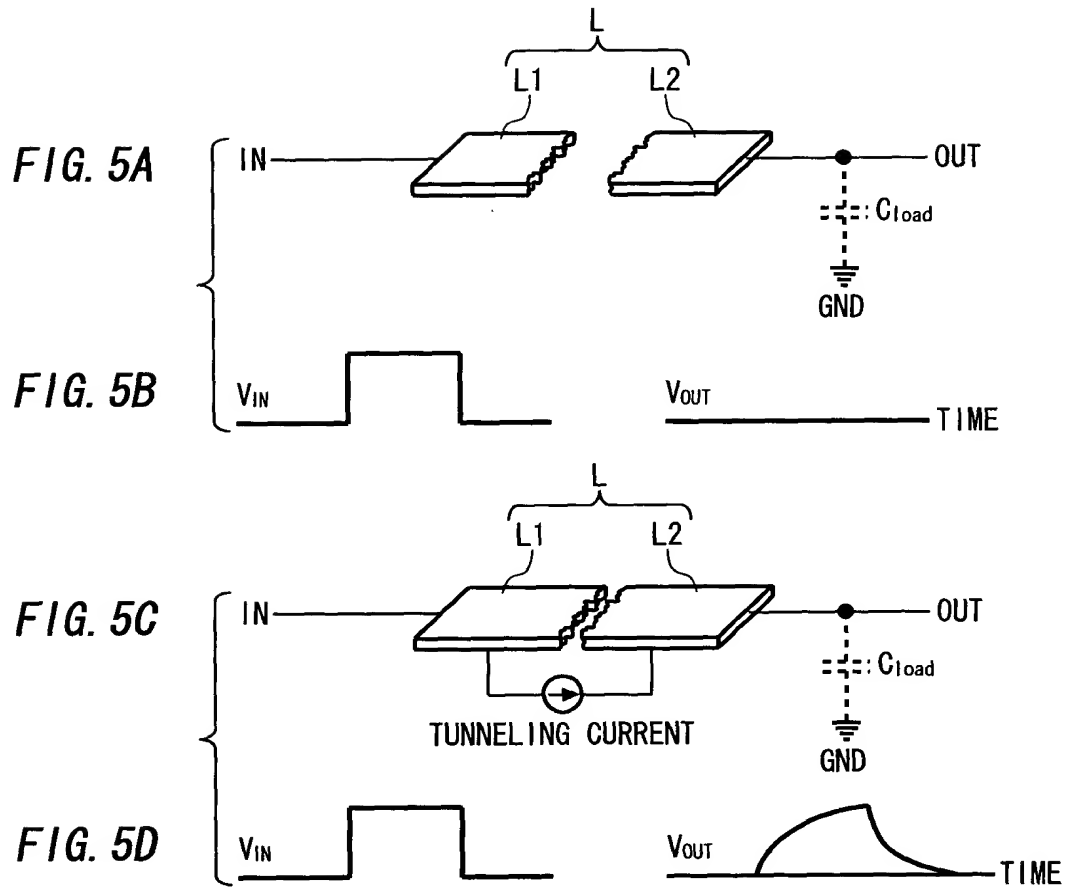


FIG. 4B

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FIG. 6A

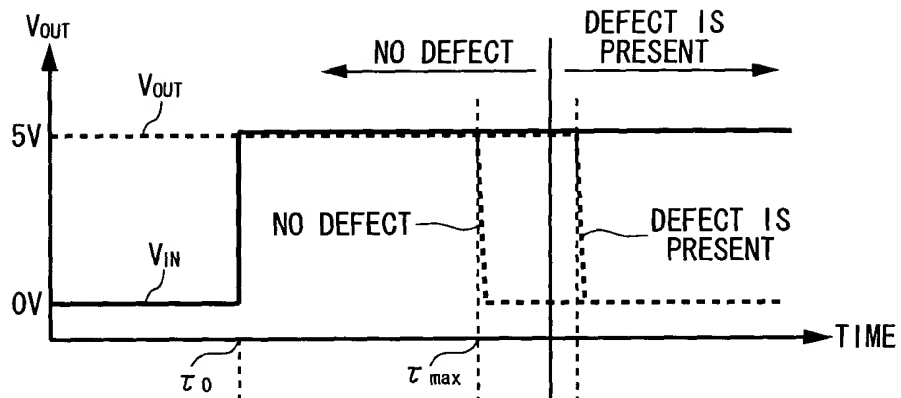
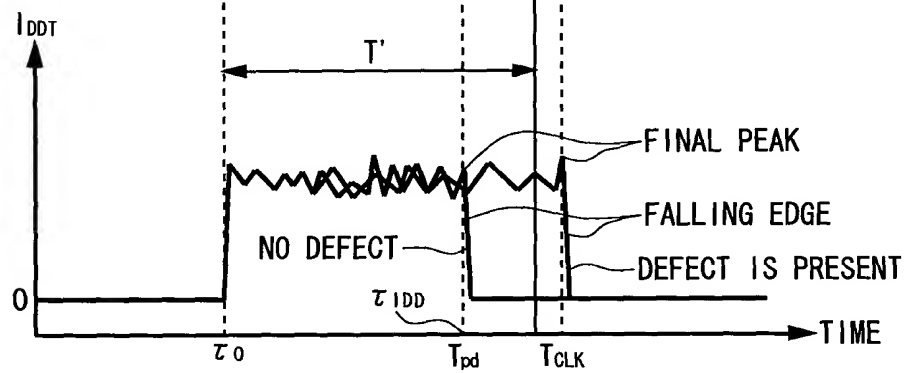


FIG. 6B



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FIG. 7A

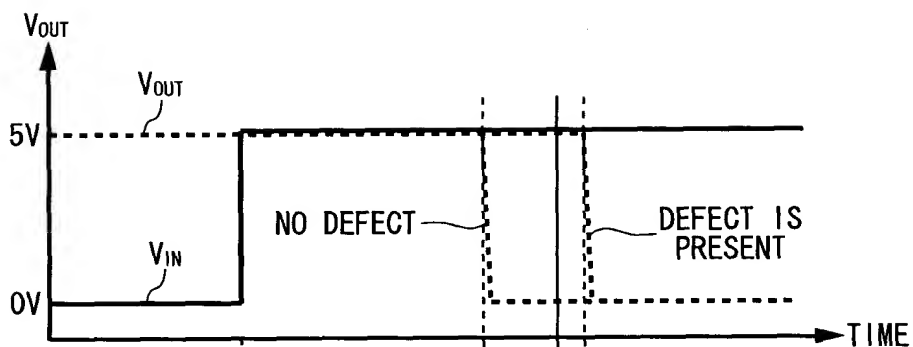
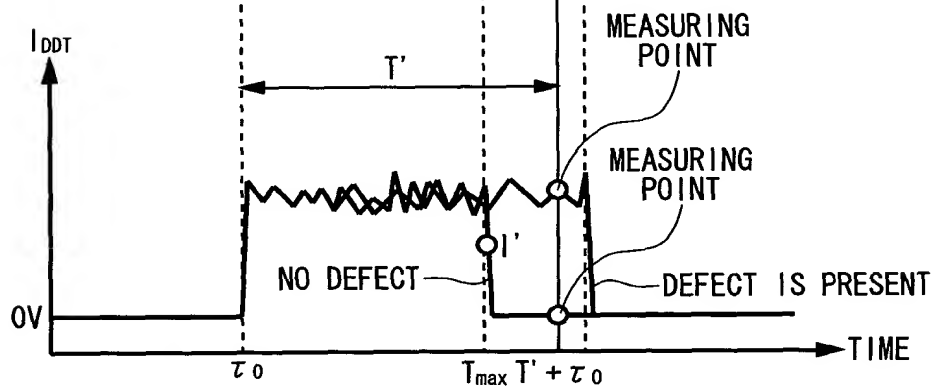


FIG. 7B



NO DEFECT: $i_{DDT}(T' + \tau_0) \leq I'$
 DEFECT IS PRESENT: $i_{DDT}(T' + \tau_0) > I'$

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FIG. 8

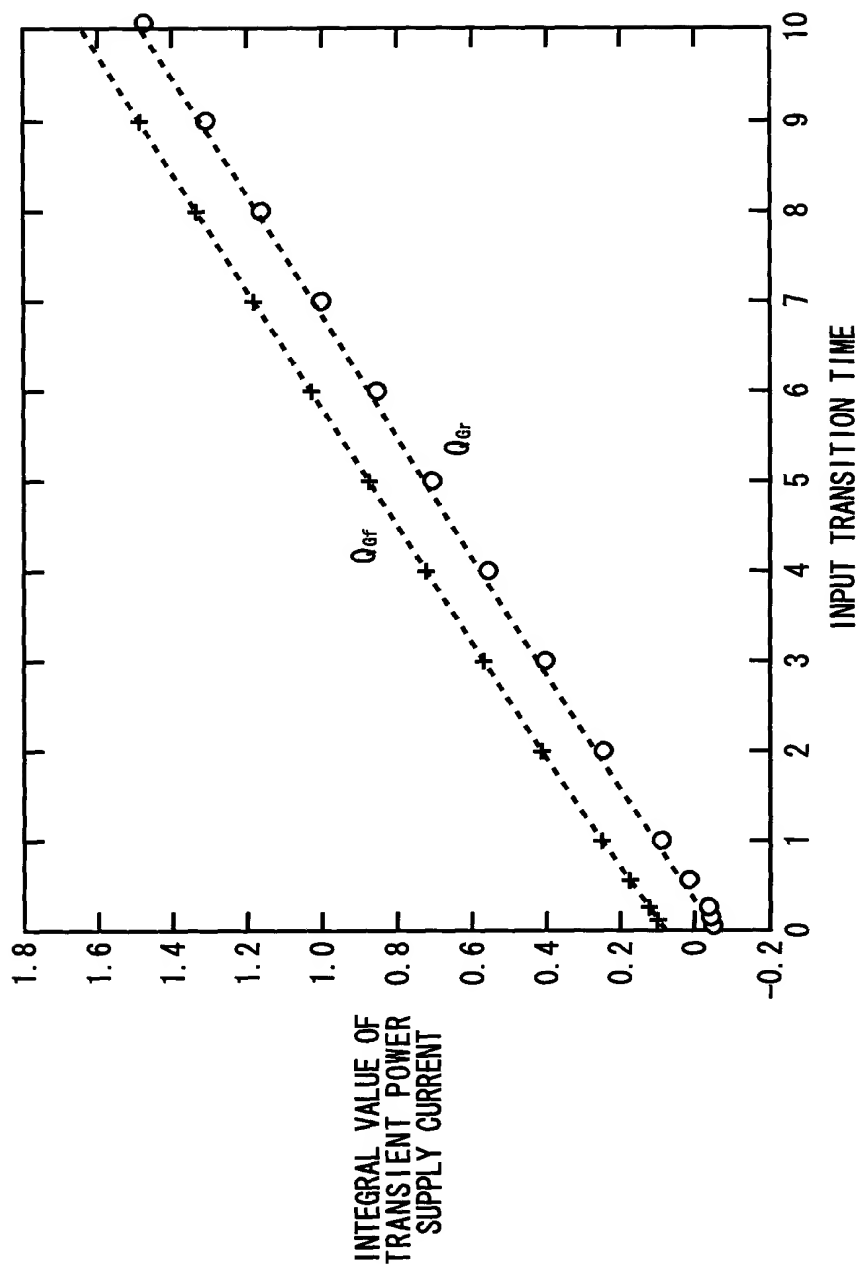


FIG. 8

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FIG. 9A

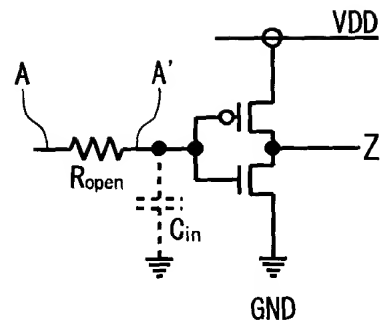


FIG. 9B

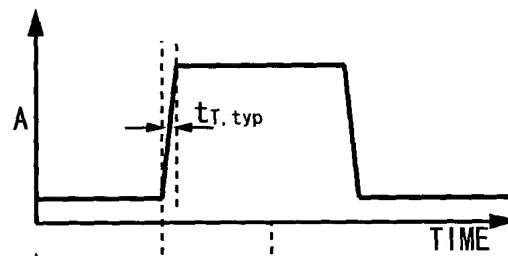
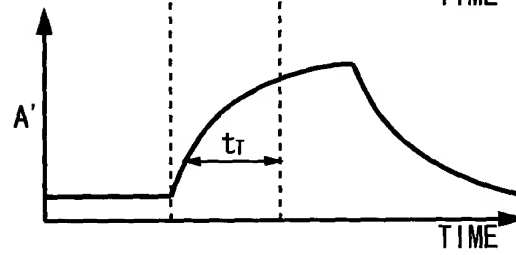


FIG. 9C



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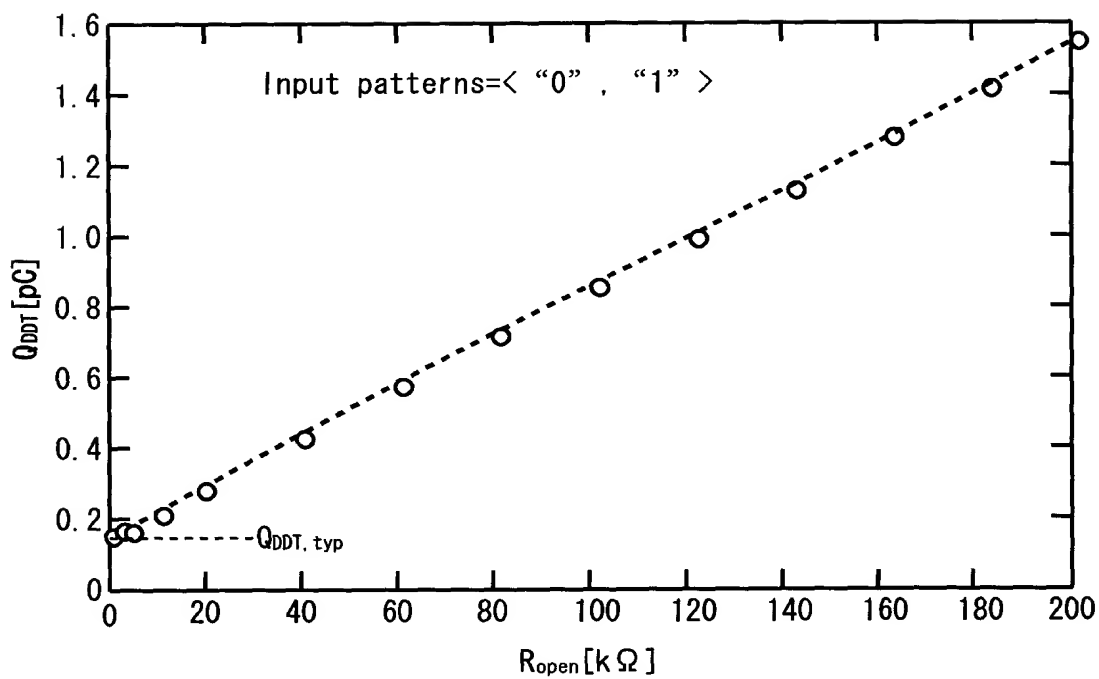


FIG. 10



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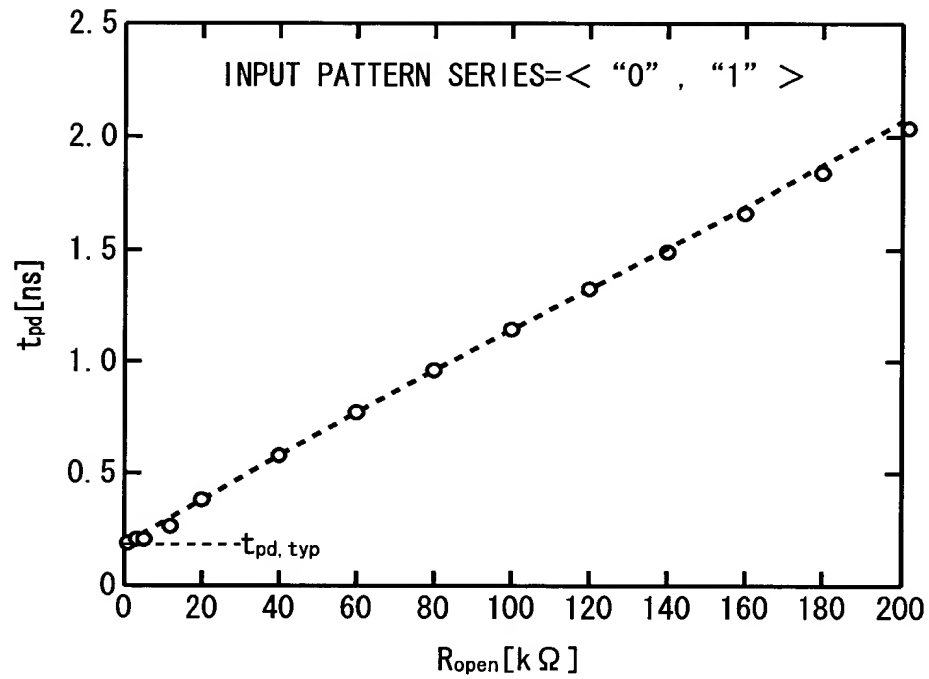


FIG. 12

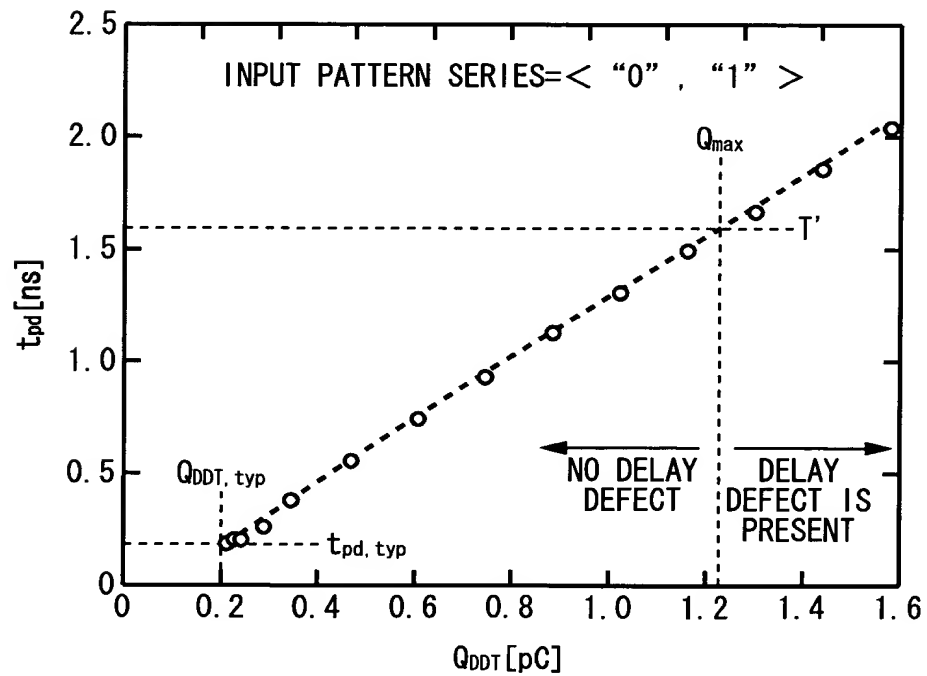


FIG. 13

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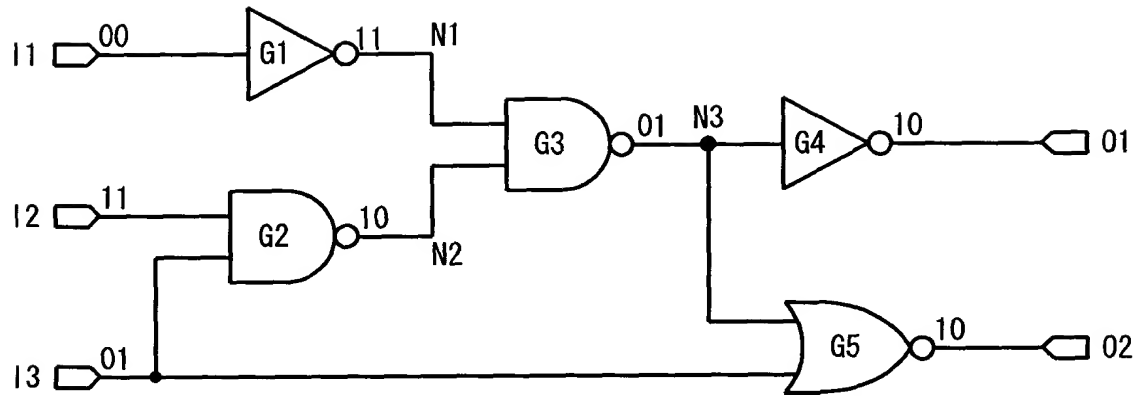


FIG. 14

[illegible]

FIG. 15

FIG. 16

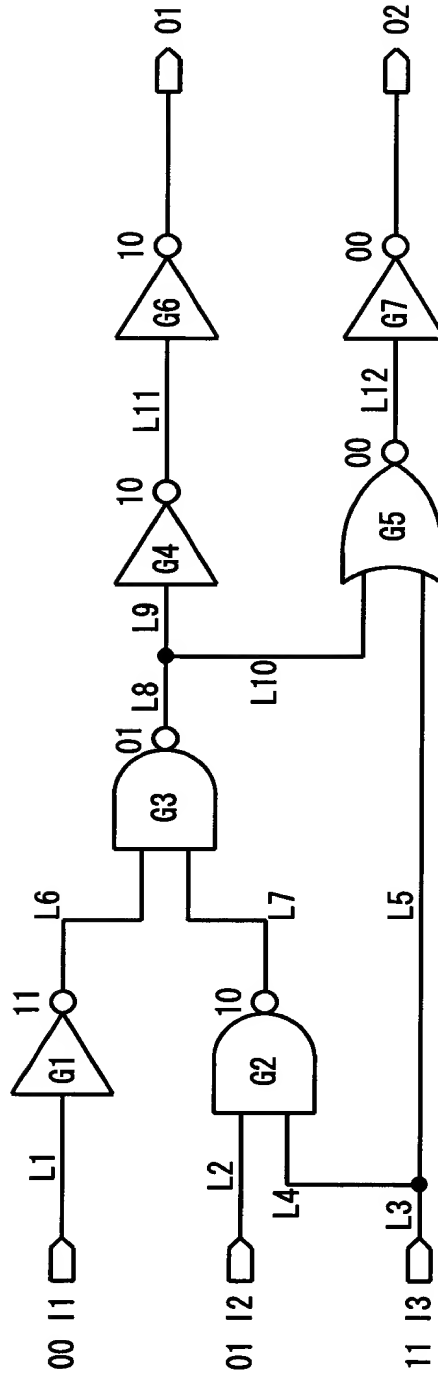


FIG. 16

TEST PATTERN SEQUENCE ID NO.	INPUT TERMINAL			INTERNAL SIGNAL LINE												OUTPUT TERMINAL		DETECTABLE DEFECTIVE INTERNAL SIGNAL LINE
	I1	I2	I3	1	2	3	4	5	6	7	8	9	10	11	12	01	02	
T1	0	0	R	0	0	R	R	R	1	1	1	1	1	1	F	1	F	L3, L5, L12
T2	0	1	R	0	1	R	R	R	1	F	F	F	F	F	F	F	F	L3, L4, L5, L7, L8, L9, L10, L11, L12
T3	1	0	R	1	0	R	R	R	0	1	0	0	0	0	0	0	0	—
T4	1	1	R	1	1	R	R	R	0	F	0	0	0	0	0	0	0	L3, L4
T5	0	R	0	0	R	0	0	0	1	1	1	1	1	1	1	1	1	—
T6	0	R	1	0	R	1	1	1	1	F	F	F	F	F	0	F	0	L2, L7, L8, L9, L11
T7	1	R	0	1	R	0	0	0	0	1	0	0	0	0	0	0	0	—
T8	1	R	1	1	R	1	1	1	0	F	0	0	0	0	0	0	0	L2
T9	R	0	0	R	0	0	0	0	F	1	F	F	F	F	F	F	F	L1, L6, L8, L9, L10, L11, L12
T10	R	0	1	R	0	1	1	1	F	1	F	F	F	F	0	F	0	L1, L6, L8, L9, L11
T11	R	1	0	R	1	0	0	0	F	1	F	F	F	F	F	F	F	L1, L6, L8, L9, L10, L11, L12
T12	R	1	1	R	1	1	1	1	F	0	0	0	0	0	0	0	0	L1
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:

FIG. 17

[illegible]

FIG. 18

TEST PATTERN SEQUENCE ID NO.	INPUT TERMINAL	INTERNAL SIGNAL LINE												OUTPUT TERMINAL	DETECTABLE FAULTY PATH
		1	2	3	4	5	6	7	8	9	10	11	12	1	2
T1	0 0 R	0	0	R	R	R	1	1	1	1	1	1	F	1	F
T2	0 1 R	0	1	R	R	R	1	F	F	F	F	F	F	F	F
T3	1 0 R	1	0	R	R	R	0	1	0	0	0	0	0	0	0
T4	1 1 R	1	1	R	R	R	0	F	0	0	0	0	0	0	0
T5	0 R 0	0	R	0	0	0	1	1	1	1	1	1	1	1	1
T6	0 R 1	0	R	1	1	1	1	F	F	F	F	F	F	F	0
T7	1 R 0	1	R	0	0	0	0	1	0	0	0	0	0	0	0
T8	1 R 1	1	R	1	1	1	0	F	0	0	0	0	0	0	0
T9	R 0 0	R	0	0	0	0	F	1	F	F	F	F	F	F	F
T10	R 0 1	R	0	1	1	1	F	1	F	F	F	F	0	F	0
T11	R 1 0	R	1	0	0	0	F	1	F	F	F	F	F	F	F
T12	R 1 1	R	1	1	1	1	F	0	0	0	0	0	0	0	0
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:

FIG. 19

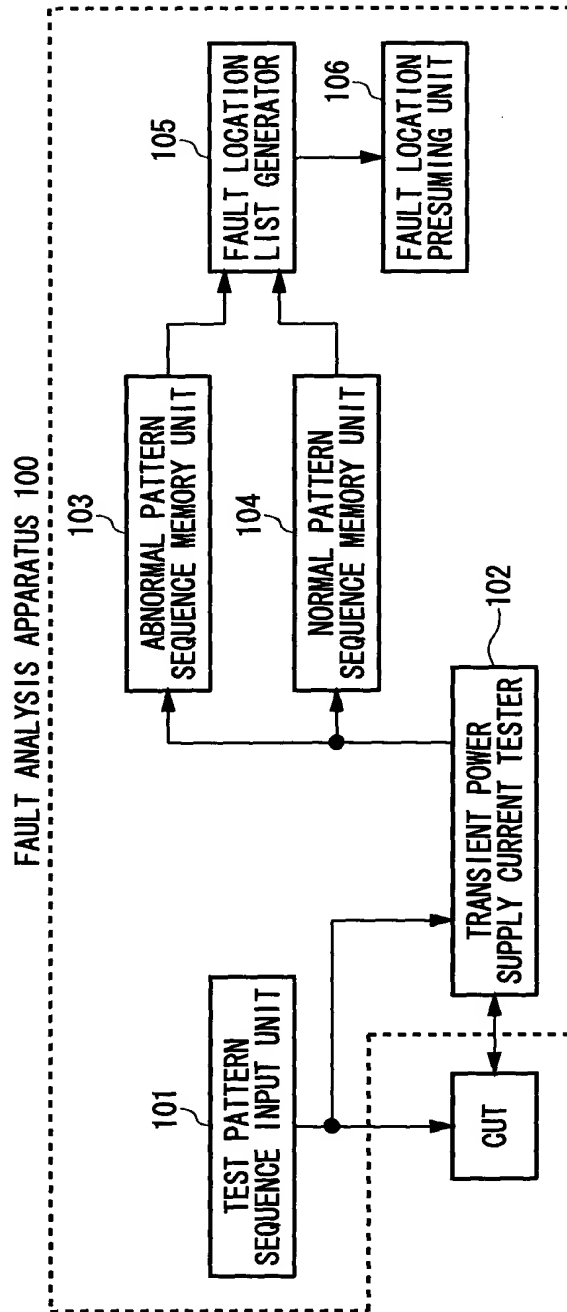


FIG. 20

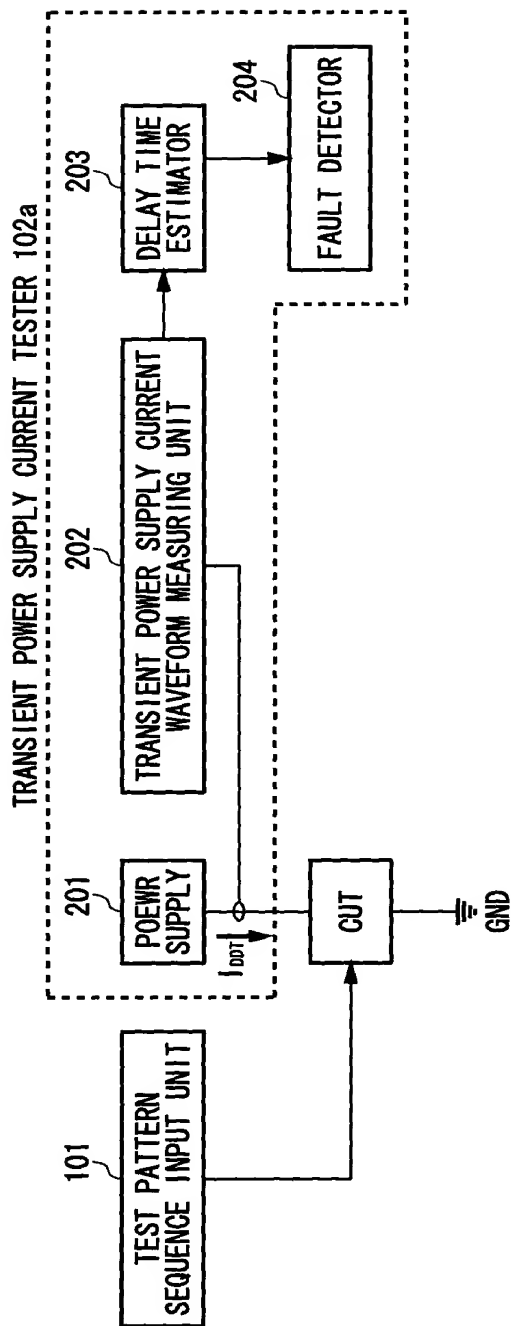


FIG. 21

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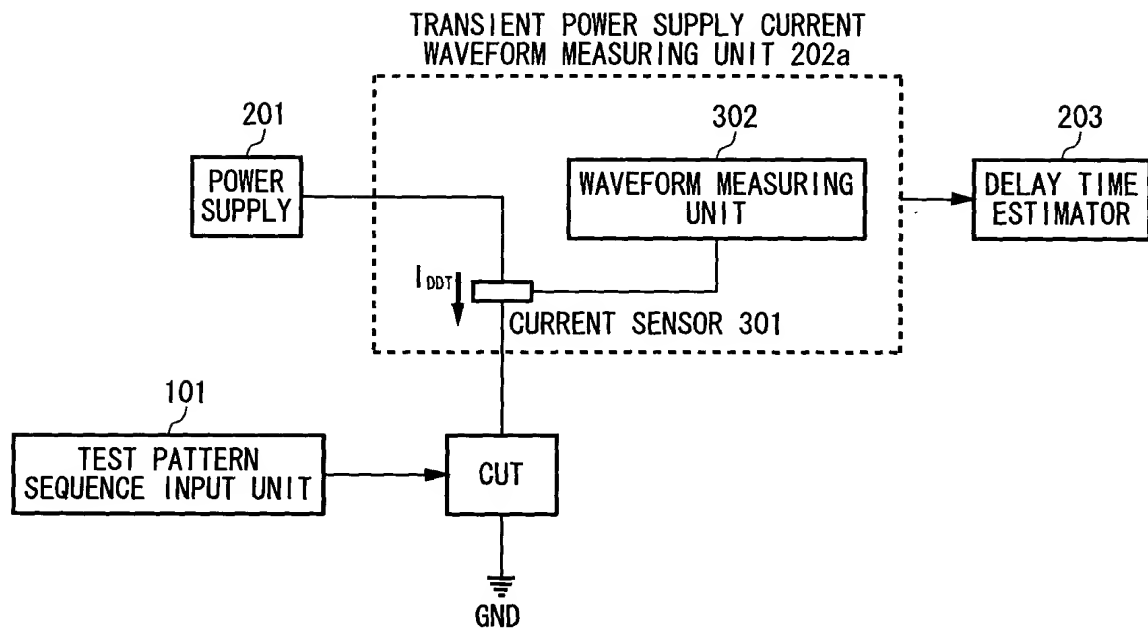


FIG. 22

FIG. 22

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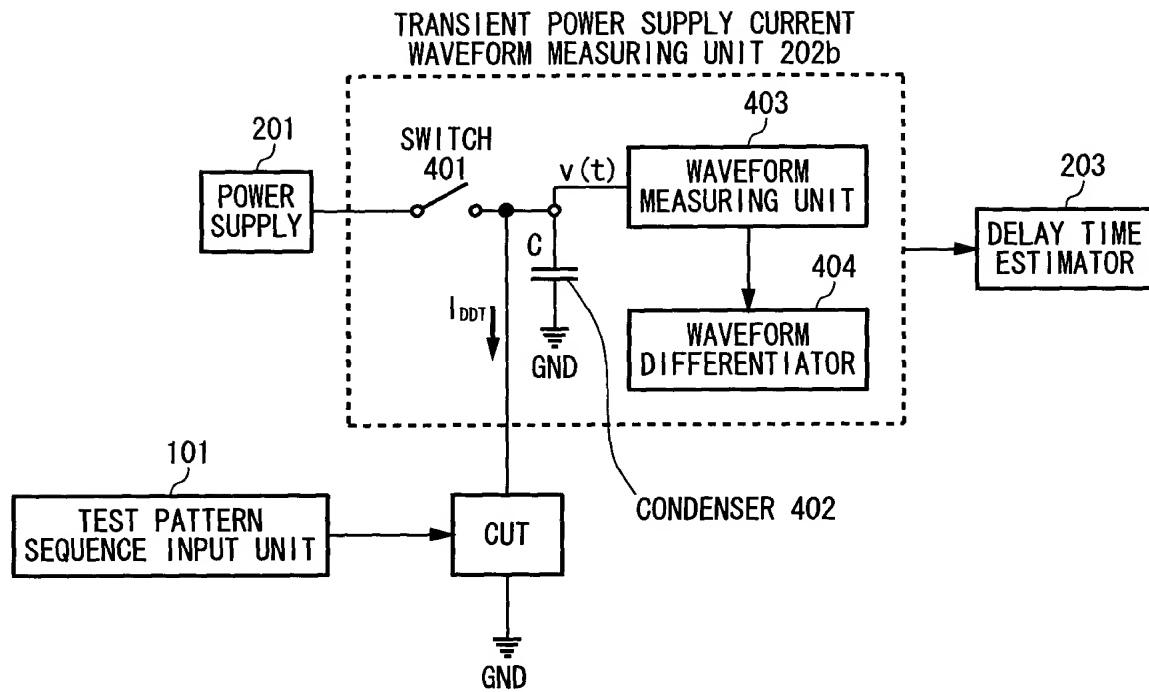


FIG. 23

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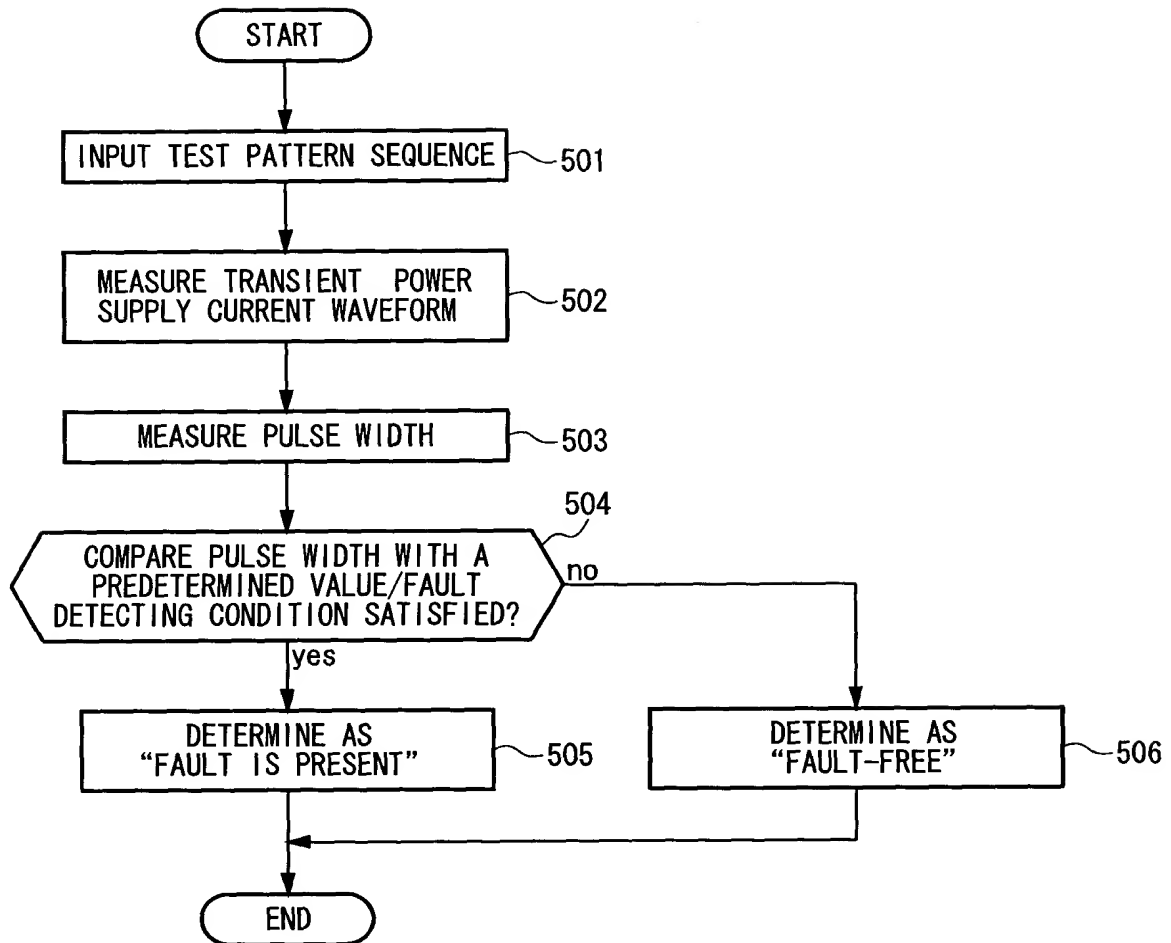


FIG. 24

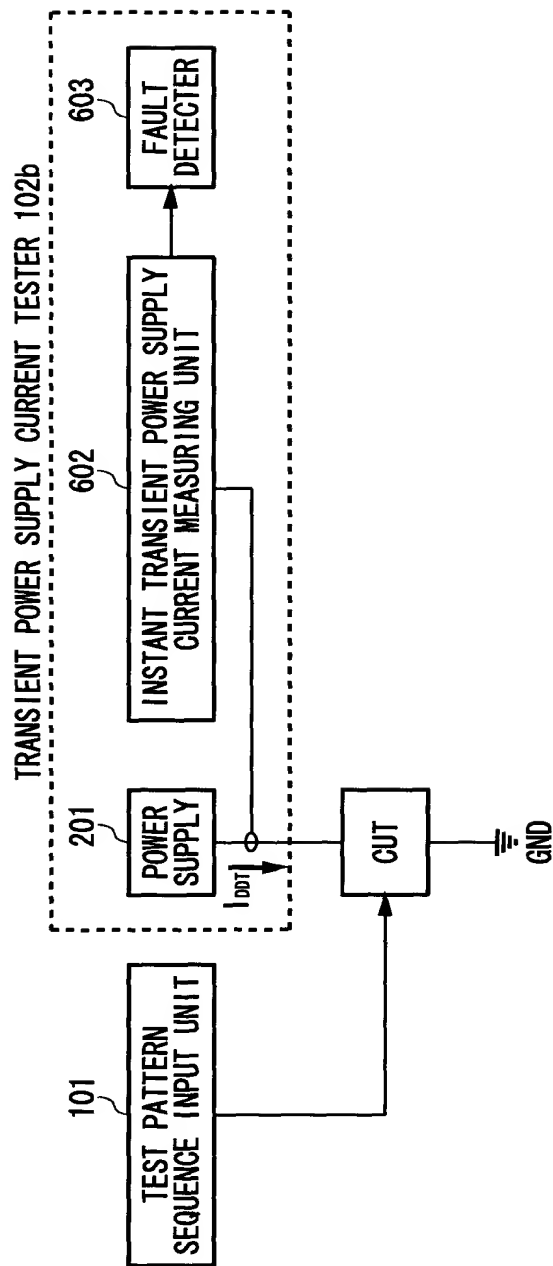


FIG. 25

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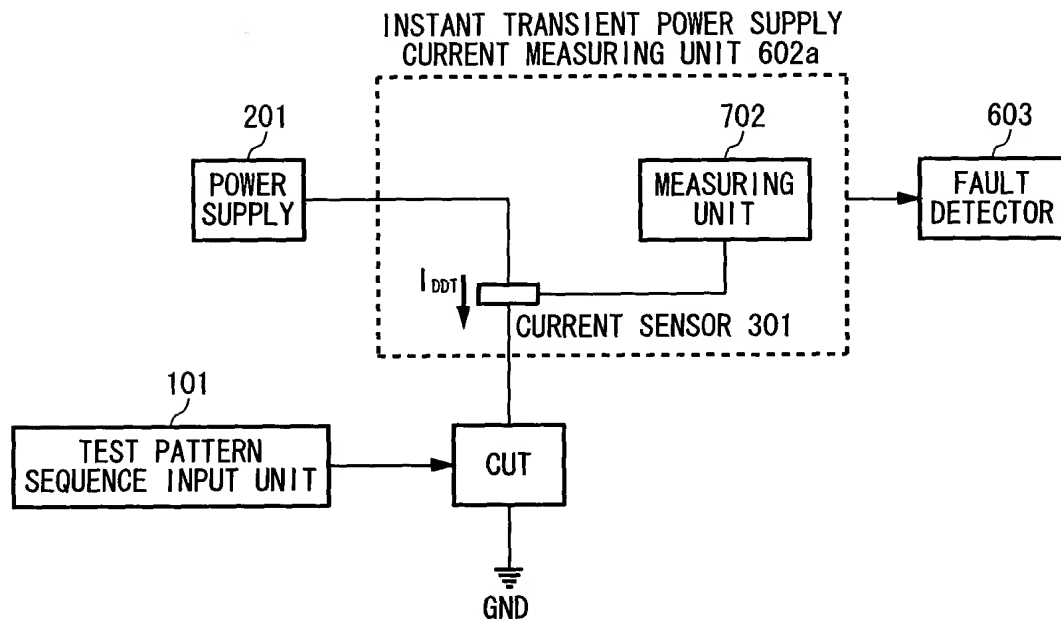


FIG. 26

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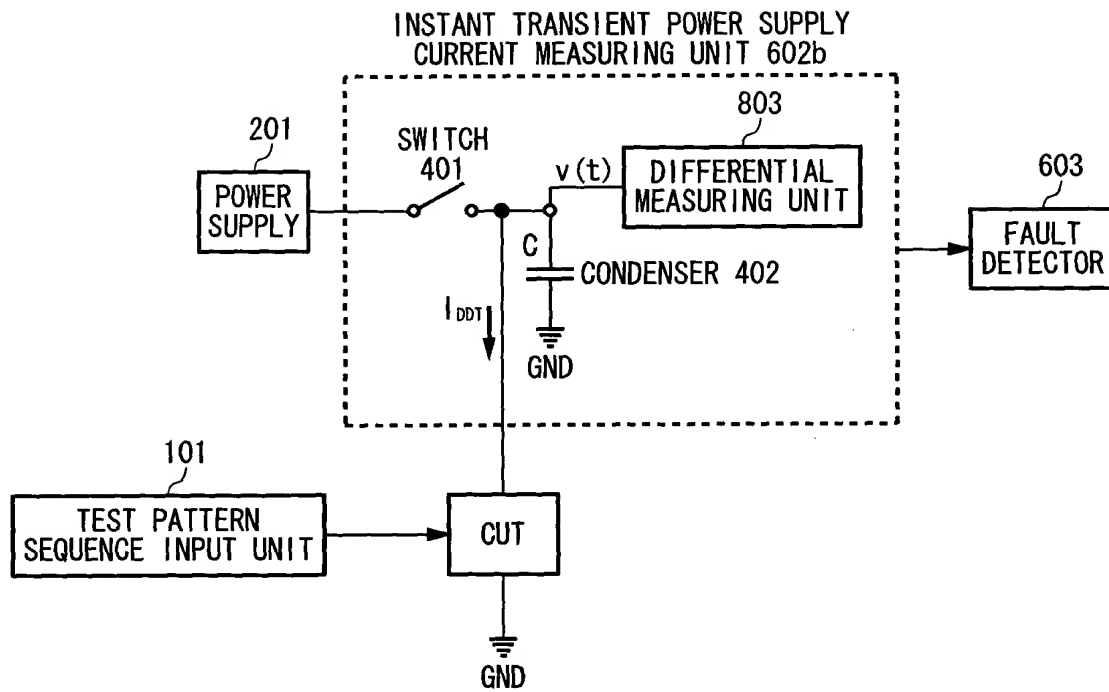


FIG. 27

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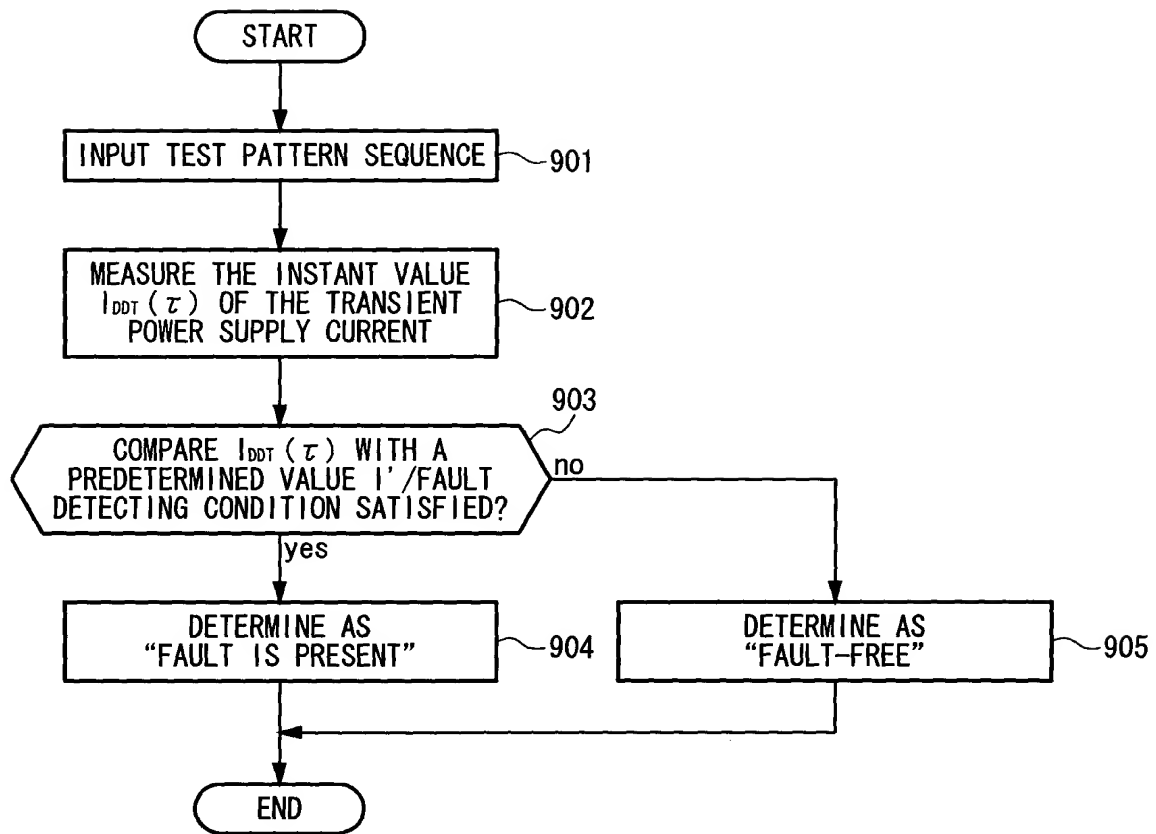


FIG. 28

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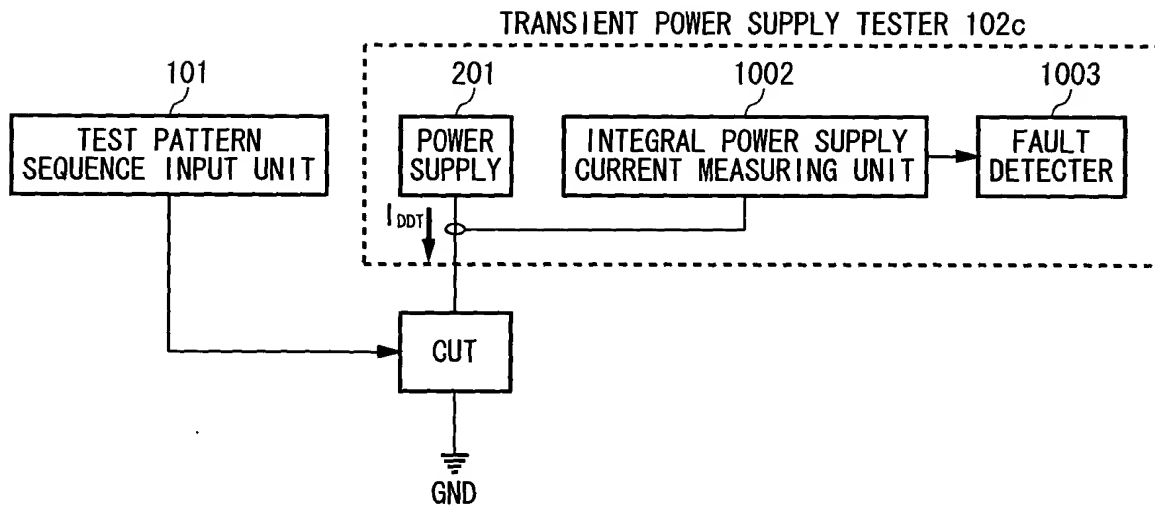


FIG. 29

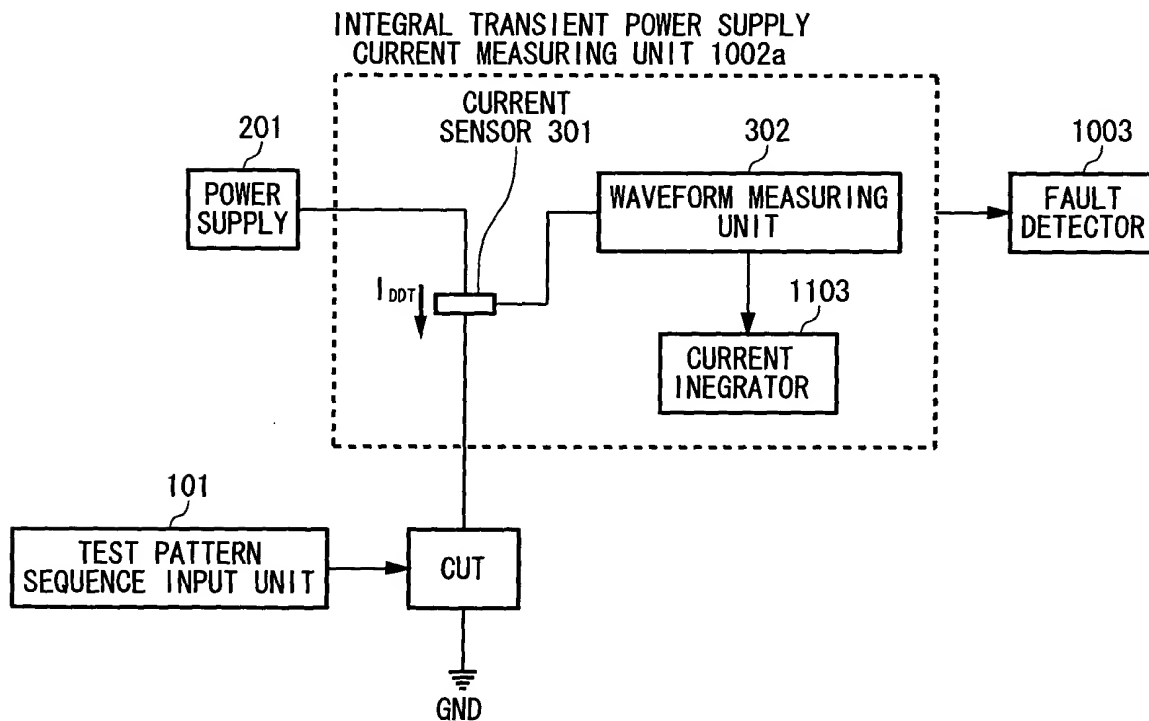


FIG. 30

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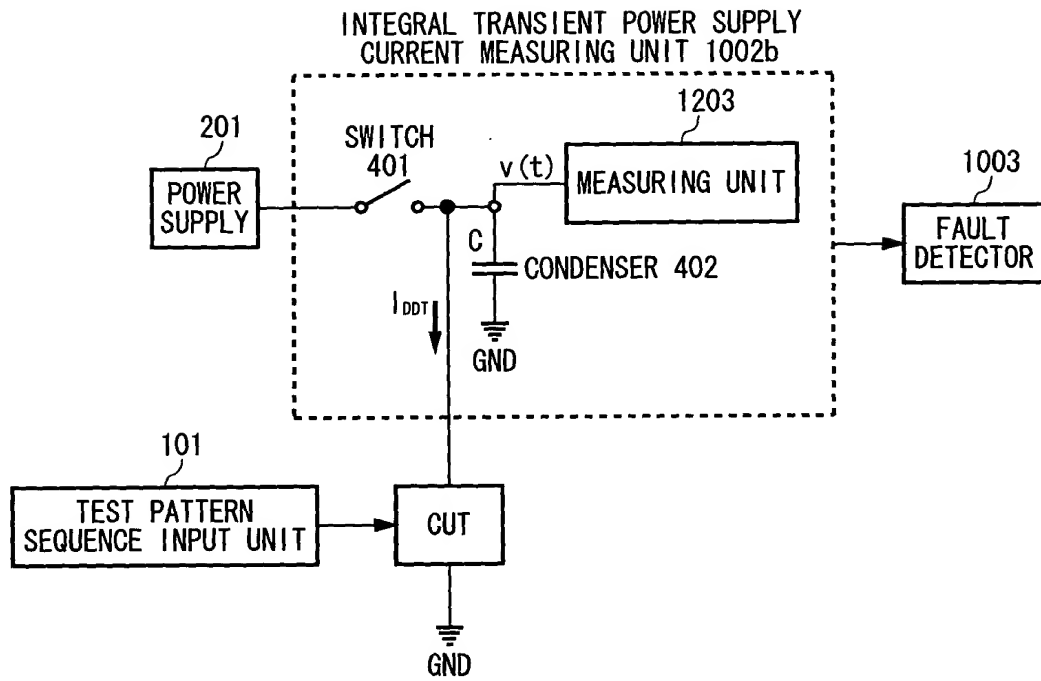


FIG. 31

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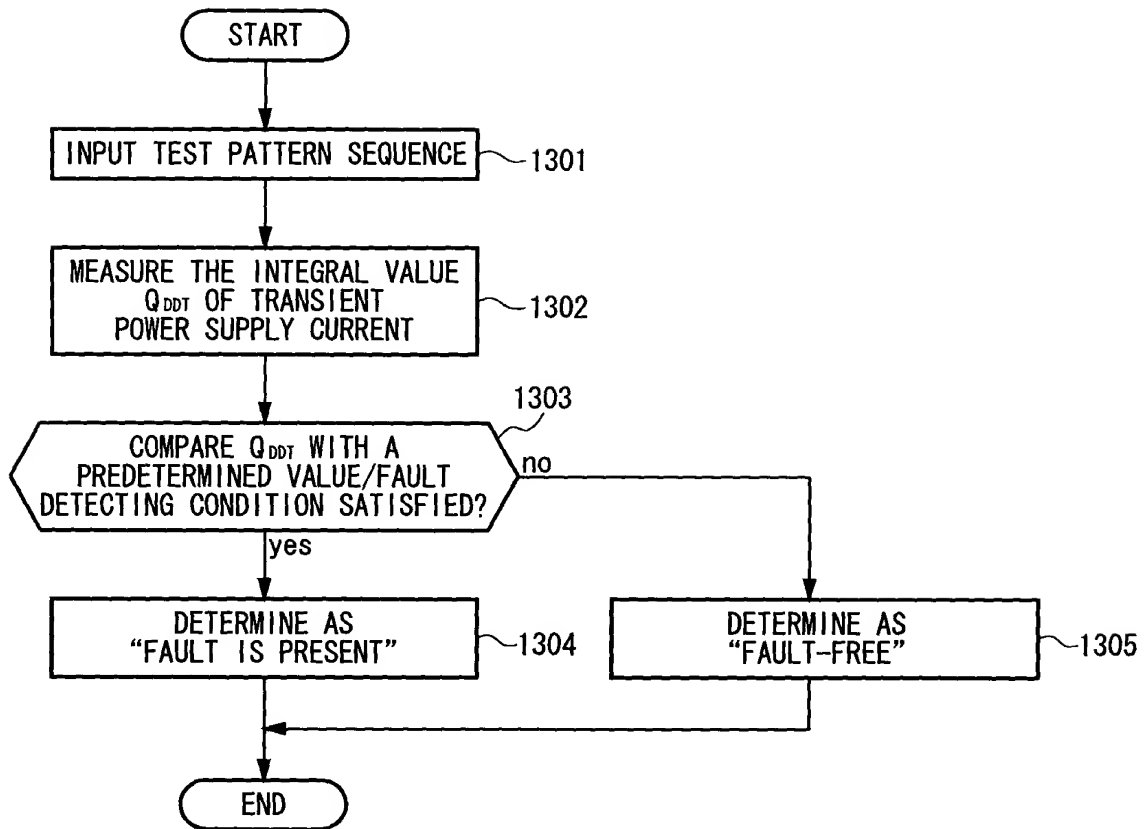


FIG. 32

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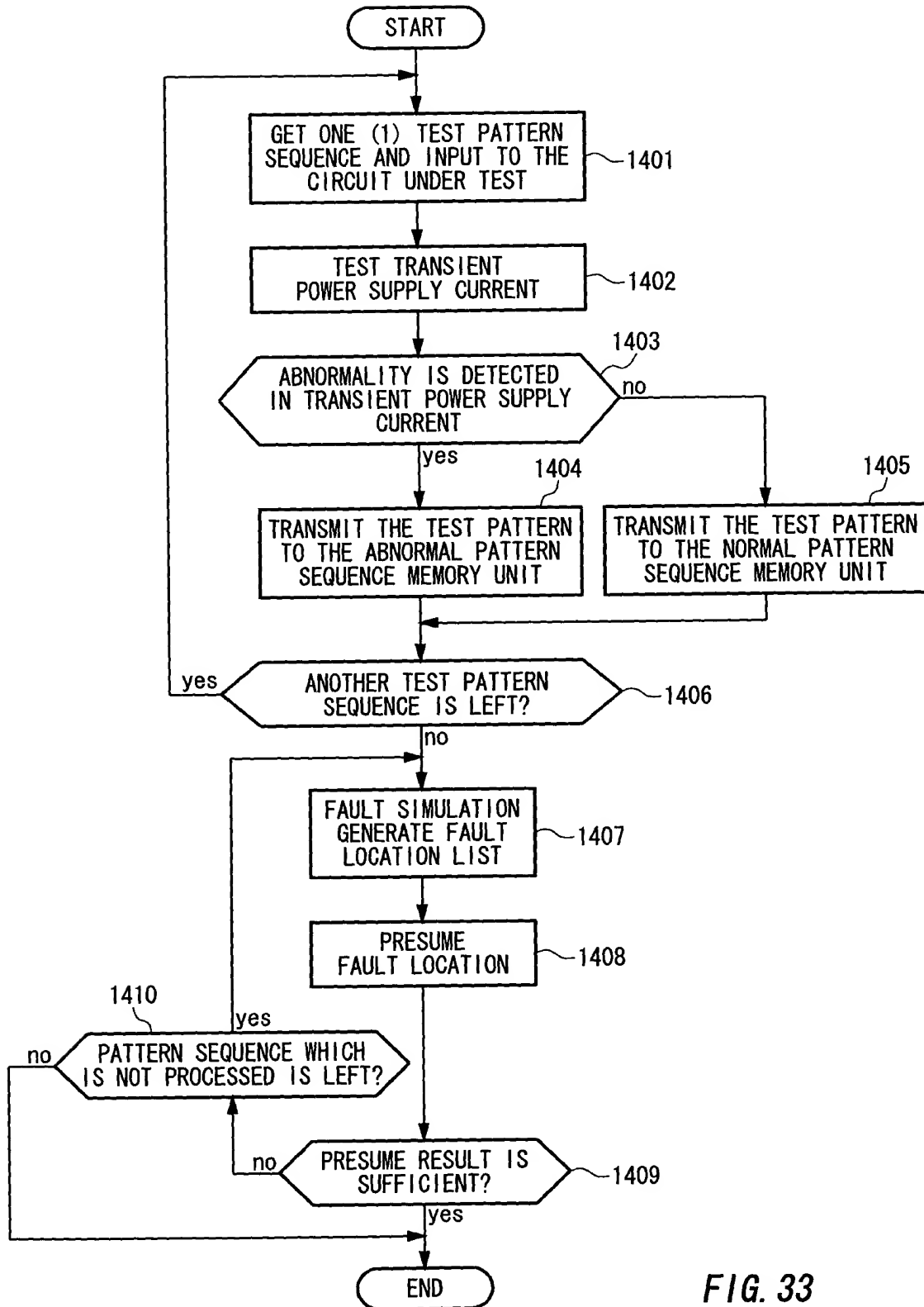


FIG. 33

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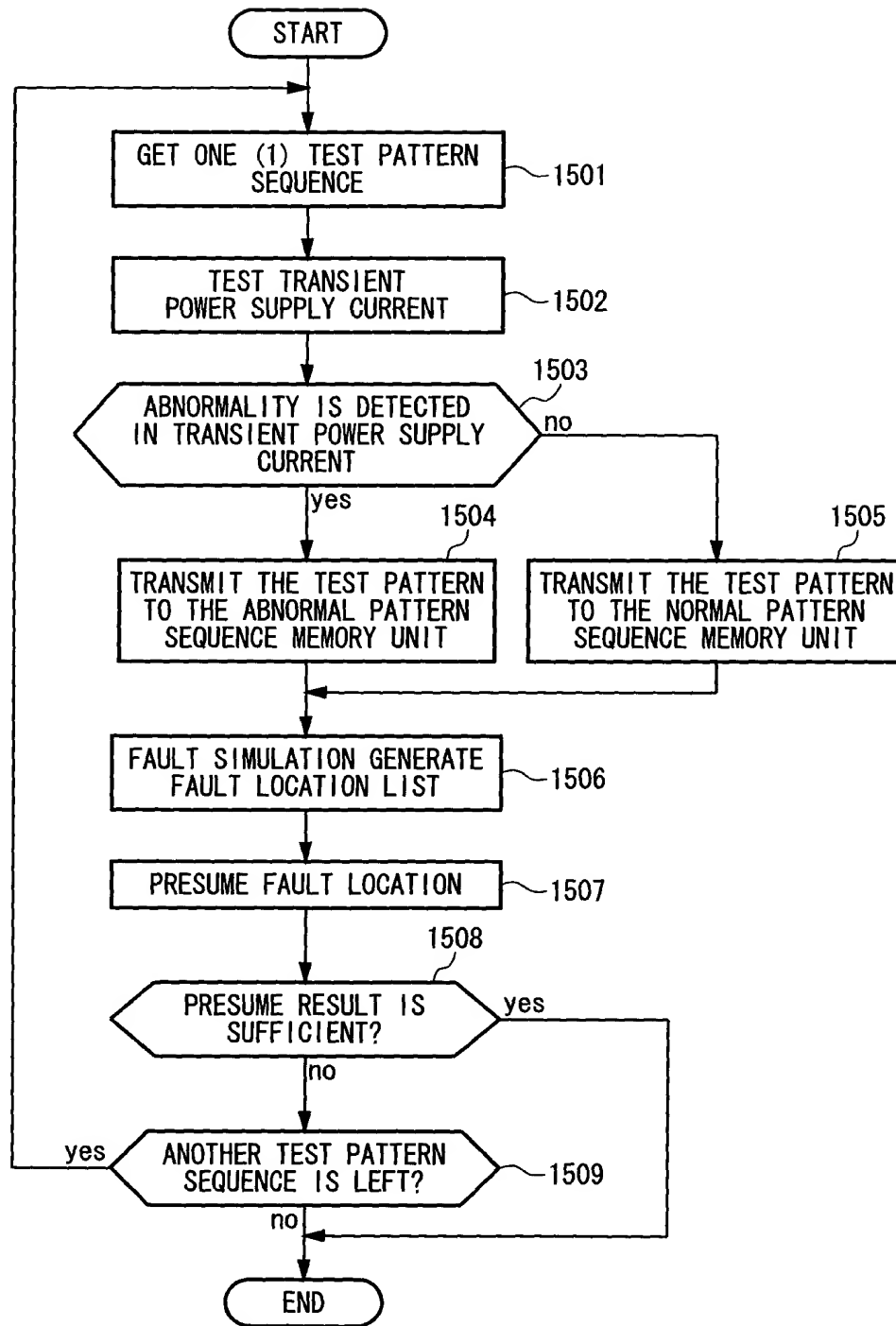


FIG. 34

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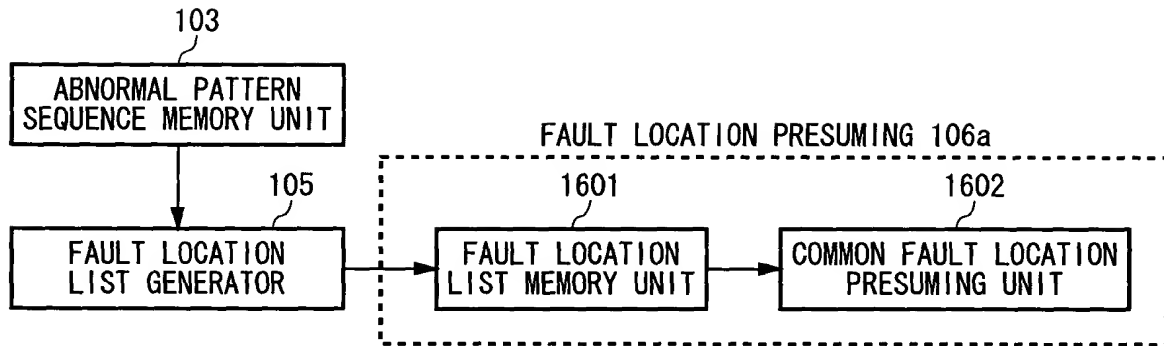


FIG. 35

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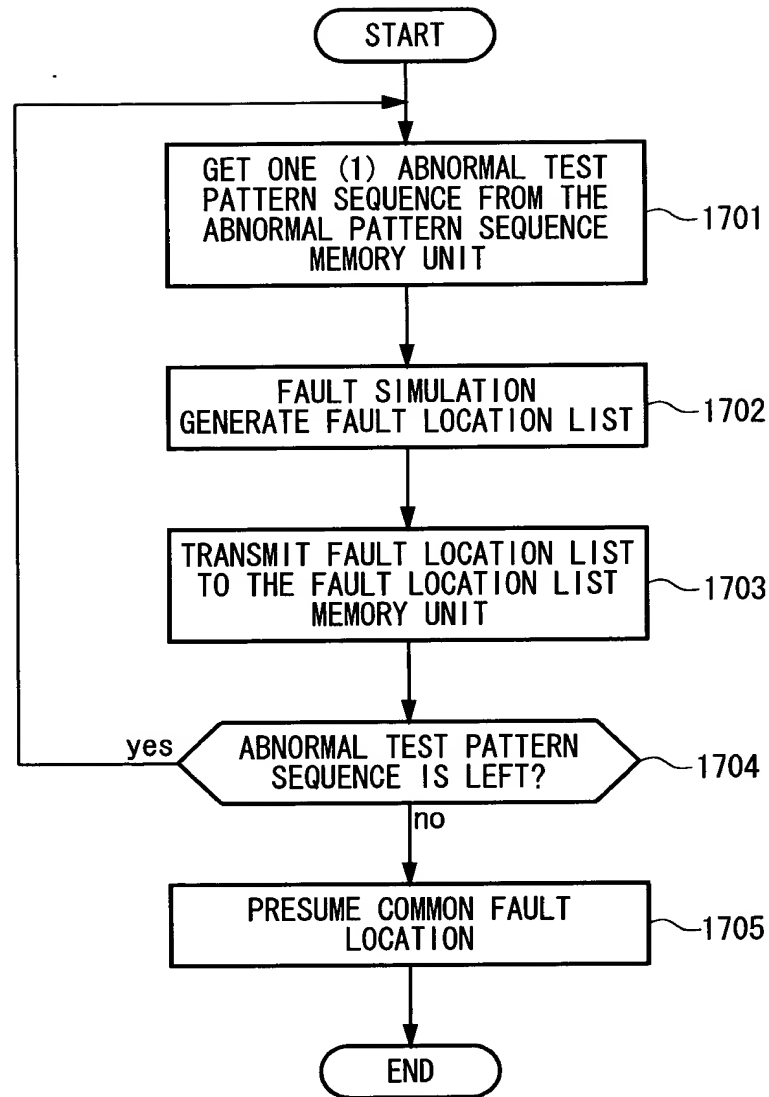


FIG. 36

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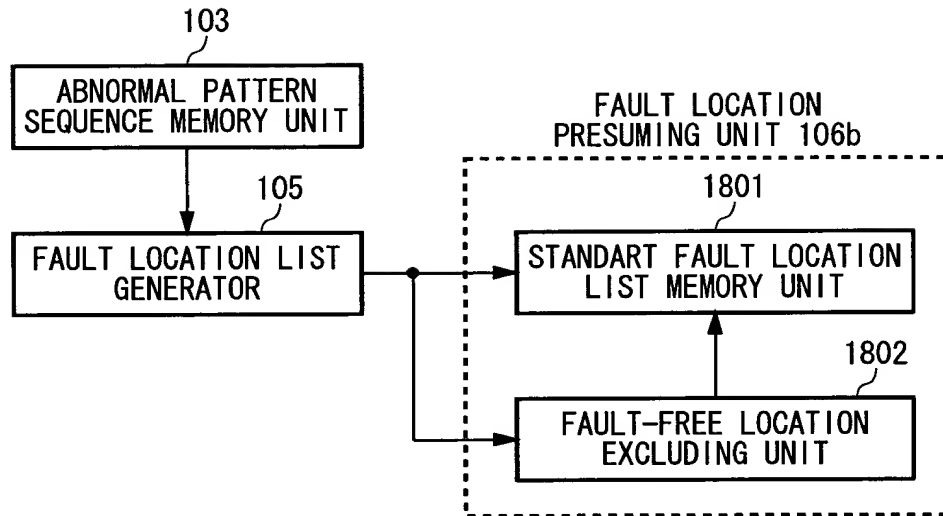


FIG. 37

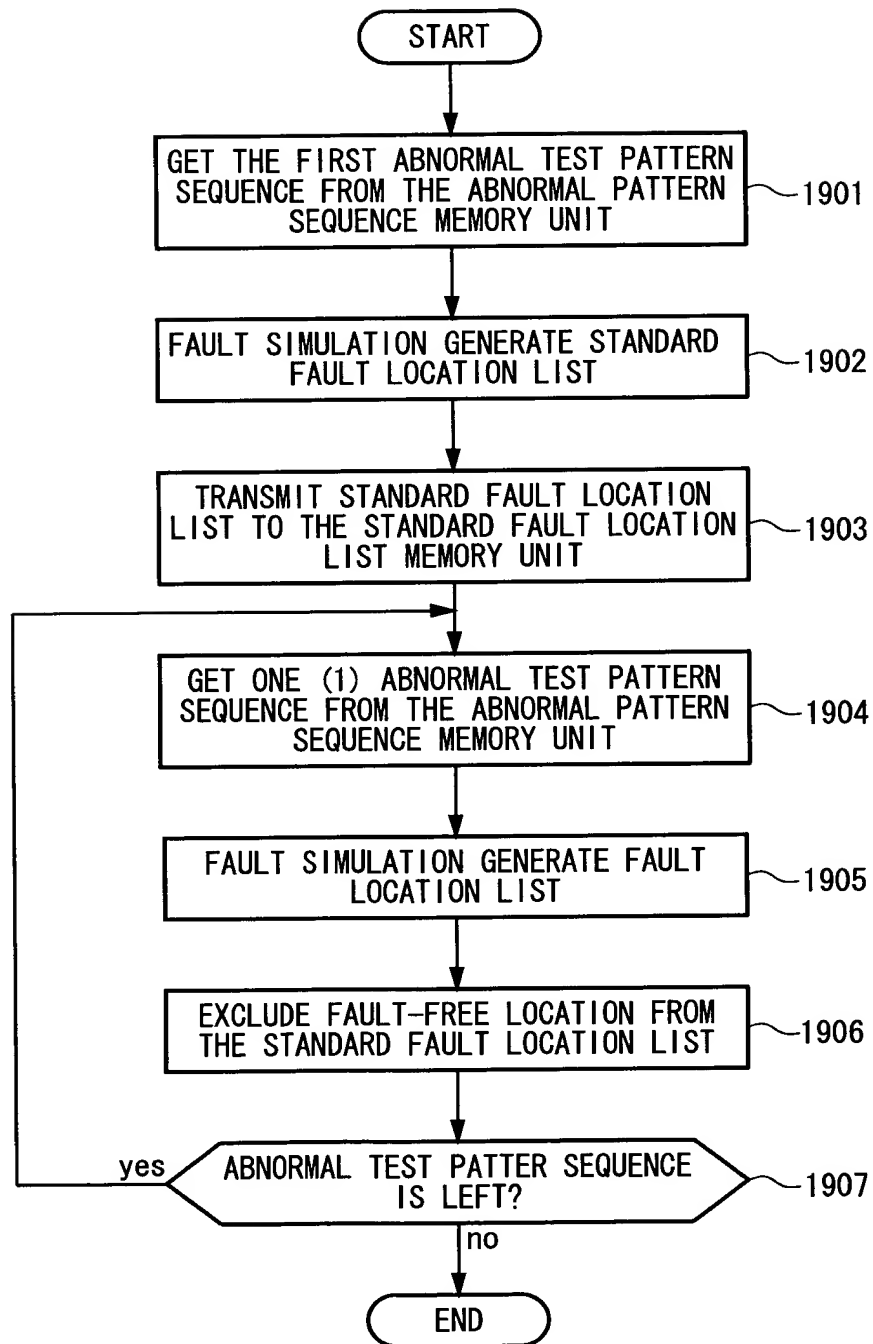


FIG. 38

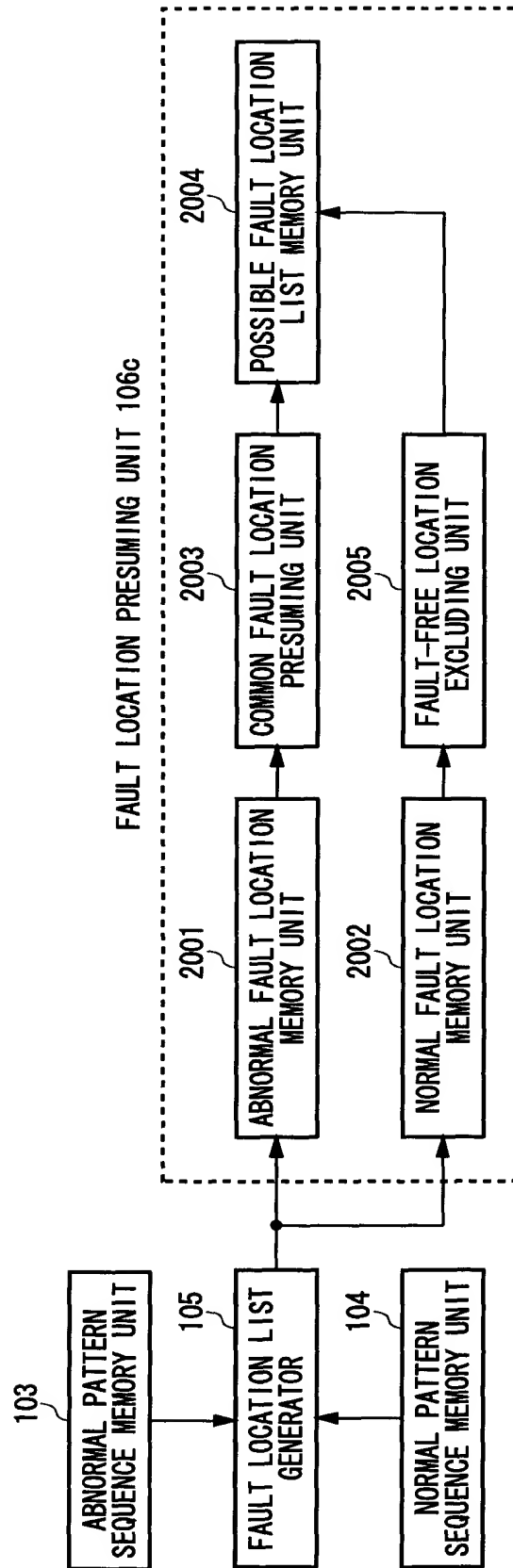


FIG. 39

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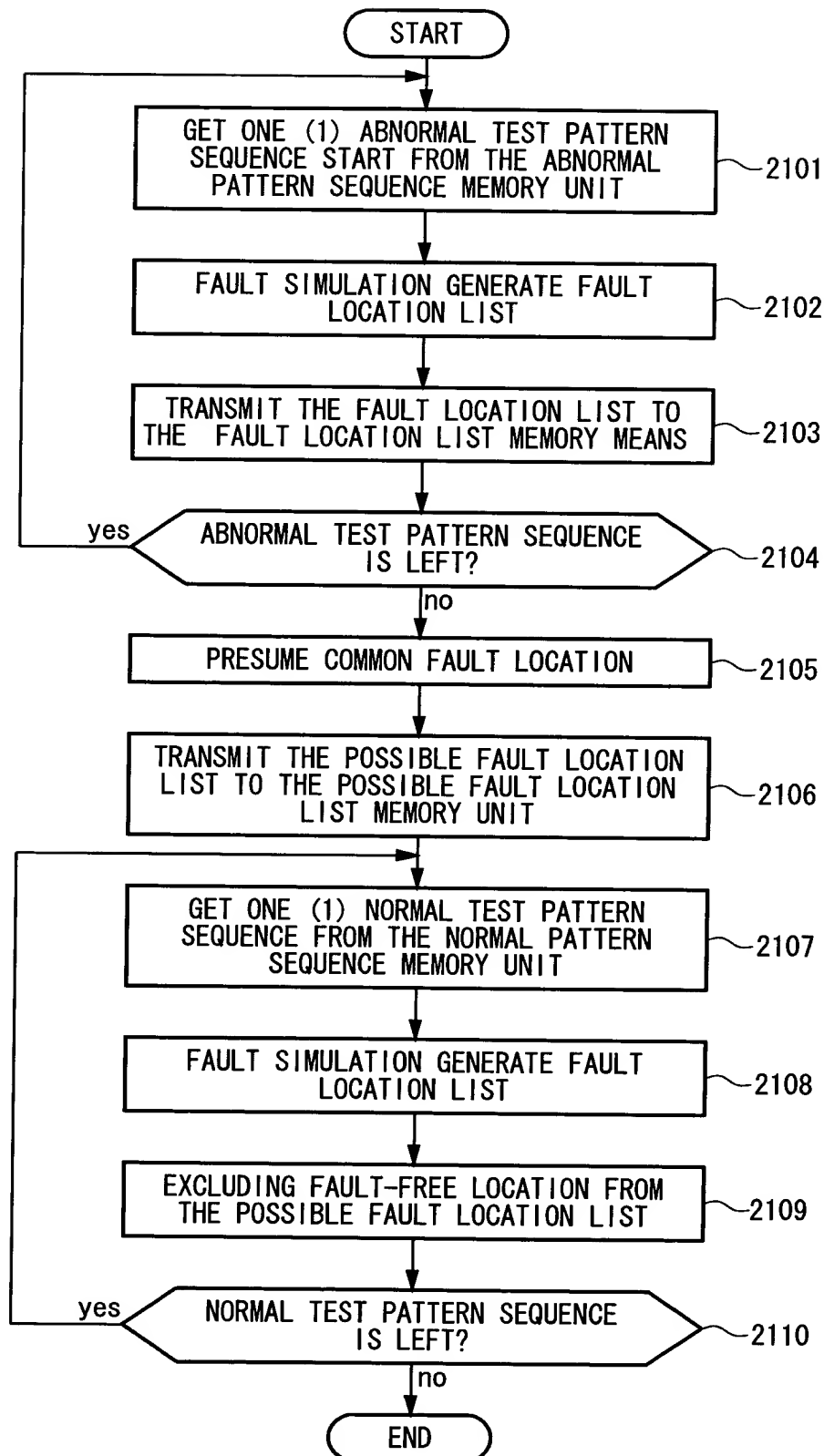


FIG. 40